

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20020191779" and (peak with auto\$1correlation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 08:39
L2	1	"20020191779" and (peak with correlation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 09:29
L3	1	("4923382").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/19 09:29
S1	1	((frequency\$1domain adj1 deconvolution) with (spectra) with (channel near2 estimat\$3)) same (inverse adj1 transform) same recover\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:30
S2	1	((frequency\$1domain adj1 deconvolution) with (channel near2 estimat\$3)) same (inverse adj1 transform) same recover\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:30
S3	1	((deconvolution) with (channel near2 estimat\$3)) same (inverse adj1 transform) same recover\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:30
S4	1	((deconvolution) with (channel near2 estimat\$3)) same (inverse adj1 transform)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:30
S5	1	((deconvolution) with (channel near2 estimat\$3)) same ((inverse adj2 transform) or ifft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:30
S6	1	((deconvolut\$5) with (channel near2 estimat\$3)) same ((inverse adj2 transform) or ifft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:31
S7	18	((deconvolut\$5) with (channel near2 estimat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:31

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S8	8	((deconvolut\$5) with (channel near2 estimat\$3)) and (ifft or (inverse near2 transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:34
S9	8	((de\$1convolut\$5) with (channel near2 estimat\$3)) and (ifft or (inverse near2 transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 08:51
S10	1	("20020191779").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/18 08:57
S11	0	"20020191779" and (averag\$3 with fir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/19 08:38
S12	2	(averag\$3 near3 (power near2 spectr\$2) near7 iir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:53
S13	19	(averag\$3 near3 (power) near7 iir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 09:03
S14	5	(averag\$3 near4 iir near7 reduce)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:41
S22	30	(averag\$3 near4 iir) with exponential\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:27
S23	1	(averag\$3 near4 iir) with power with exponential\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:27
S24	7	(averag\$3 near4 iir near7 (reduc\$3 or advantage\$1 or benefit\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:42

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S25	271	(averag\$3 near4 iir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:46
S26	51	(averag\$3 near4 iir near5 (weight\$3 or exponential\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 10:46
S27	3	(averag\$3 near3 (power) near7 iir) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:09
S28	0	"20020191779" and (coefficient\$1 with delay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 18:17
S29	0	"20020191779" and (coefficient\$1 same delay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:10
S30	7	"5117418" and (coefficient\$1 with delay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:34
S31	8	(adjust\$3 or revis\$3 or updat\$3) near4 ((channel near3 (estimat\$3 or impulse)) or cir) with coefficient\$1 with delay\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:48
S32	4	(adjust\$3 or revis\$3 or updat\$3) near4 ((channel near3 (estimat\$3 or impulse)) or cir) with coefficient\$1 with delay\$1 and (echo\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:40
S33	274	((channel near3 (estimat\$3 or impulse or characteristic\$1)) or cir) with coefficient\$1 with delay\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:49
S34	36	((channel near3 (estimat\$3 or impulse or characteristic\$1)) or cir) with coefficient\$1 with delay\$1 and (echoe\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:49

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S36	53	((channel near3 (estimat\$3 or impulse or characteristic\$1)) or cir) with coefficient\$1 with delay\$1 and (echo\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 11:52
S37	5	(updat\$3 or adjust\$3 or revis\$3) near4 ((channel near3 (estimat\$3 or impulse or characteristic\$1)) or cir) with coefficient\$1 with delay\$1 and (echo\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 16:48
S38	1	("20050259767").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/18 16:49
S39	0	"20020191779" and (averag\$3 same (filter\$3 with equaliz\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 18:17

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S89	206	(echoe\$1 near1 multi\$1path\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 13:29
S90	23	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with ((power adj1 spectr\$2) or (square\$1 adj1 magnitude near3 spectrum)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 14:52
S91	3	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with ((power adj1 spectr\$2) or (square\$1 adj1 magnitude near3 spectrum))) and ((strong or major) near2 echo\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 14:22
S92	3	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with ((power adj1 spectr\$2) or (square\$1 adj1 magnitude near3 spectrum))) and (channel near2 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 16:23
S93	3	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with ((power adj1 spectr\$2) or (square\$1 adj1 magnitude near3 spectrum))) and (channel near4 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 14:55
S94	276	(echo\$2 or reverberat\$3) with (channel near3 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 14:55
S95	57	(echo\$2 or reverberat\$3) with (channel near3 estimat\$3) and (auto\$1correlat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 14:55
S96	11	(echo\$2 or reverberat\$3) with (channel near3 estimat\$3) and (auto\$1correlat\$3) and (power near2 spectrum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 14:55
S97	231	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with (power or amplitude or magnitude))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 16:24

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S98	67	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with (power or amplitude or magnitude)) and (echo near2 (suppress\$3 or cancel or remov\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 16:25
S99	17	(echo\$2 or reverberat\$3) with (auto\$1correlat\$3) and ((echo\$2 or reverberat\$3) with (power or amplitude or magnitude)) and (echo near2 (suppress\$3 or cancel or remov\$3)) and (channel near2 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/11 16:27
S10 0	3	dtv and (echo\$2 same (auto\$1correlat\$3 or (auto adj1 correlat\$3))) and (power adj1 spectrum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 09:11
S10 1	3	dtv and (echo\$2 with (auto\$1correlat\$3 or (auto adj1 correlat\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 09:29
S10 2	20	(echo\$2 with (auto\$1correlat\$3 or (auto adj1 correlat\$3))) and (echo\$2 with (power adj1 spectrum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 11:27
S10 3	44	(echo\$2 with (auto\$1correlat\$3 or (auto adj1 correlat\$3))) and (((fourier adj1 transform) or fft) with (auto\$1correlat\$3 or (auto adj1 correlat\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 09:52
S10 4	6	((identif\$4 or determin\$3 or find\$3 or discover\$3 or distinguish\$3) near5 echo\$2 with correlat\$3) and (echo\$2 with (power adj1 spectrum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:40
S10 5	2	(fft with (auto\$1correlation)) with (power adj1 spectr\$2) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 13:11
S10 6	296	((echo\$2 or reflection\$1) near4 (major or minor or strong\$3 or threshold or peak or amplitude\$1 or magnitude\$1 or energ\$3)) and ((echo or reflection\$1) with (auto\$1correlat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 09:16

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S10 7	11	((echo\$2 or reflection\$1) near4 (major or minor or strong\$3 or threshold or peak or amplitude\$1 or magnitude\$1 or energ\$3)) and ((echo or reflection\$1) with (auto\$1correlat\$3)) and (power adj1 spect\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 13:24
S10 8	233	((echo\$2 or reflection\$1) near4 (major or minor or strong\$3 or threshold or peak or amplitude\$1 or magnitude\$1 or energ\$3)) and ((echo or reflection\$1) with (auto\$1correlat\$3)) and digital	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 13:24
S10 9	4	((echo\$2 or reflection\$1) near4 (major or minor or strong\$3 or threshold or peak or amplitude\$1 or magnitude\$1 or energ\$3)) and ((echo or reflection\$1) with (auto\$1correlat\$3)) and dtv	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:10
S11 0	0	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (channel near3 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:14
S11 1	1117	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:13
S11 2	47	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:39
S11 3	24	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (echo\$1 or reflect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:14
S11 4	0	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (echo\$1 or reflect\$3) and (channel near3 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:15

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S11 5	24	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (echo\$2 or reflect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:26
S11 6	0	((fourier\$1transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (echo\$2 or reflect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:25
S11 7	10	((fft or dft or (fourier adj1 transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (echo\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:39
S11 8	10	((fft or dft or (fourier adj1 transform) or (fourier\$1transform)) with ((auto adj1 correlat\$3) or auto\$1correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and (echo\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:31
S11 9	0	((averag\$3 near3 power near2 spectrum) with (filter\$3 or equaliz\$3)) same (ifft or (inverse adj2 transform)) same peak\$1 and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:41
S12 0	0	((averag\$3 near3 power near2 spectrum) same (filter\$3 or equaliz\$3)) same (ifft or (inverse adj2 transform)) same peak\$1 and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:42
S12 1	1	((averag\$3 near3 power near2 spectrum) same (filter\$3 or equaliz\$3)) same (ifft or (inverse adj2 transform)) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:42
S12 2	1	((averag\$3 near3 power near2 spectr\$2) same (filter\$3 or equaliz\$3)) same (ifft or (inverse adj2 transform)) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:43
S12 3	4	((averag\$3 near3 power) same (filter\$3 or equaliz\$3)) same (ifft or (inverse adj2 transform)) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:44



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S12 4	1	((averag\$3 near3 (power or energy)) same (filter\$3 or equaliz\$3)) same (ifft or (inverse adj2 transform)) and echo\$2 and (channel near2 estimat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 14:46
S12 5	14	((averag\$3 near3 (power or energy)) same (filter\$3 or equaliz\$3)) same ((auto adj1 correlat\$3) or auto\$1correlat\$3) and echo\$2 and (channel near2 estimat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 15:02
S12 6	17	((combin\$3 or accumul\$3 or sum\$3 or add\$3) near4 echo\$2) same (auto\$1correlat\$3 or power) and (ifft or (inverse adj2 transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 15:34
S12 7	1	("5117418").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 16:10
S12 8	548	(fft near4 (power adj1 spectrum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 16:11
S12 9	960	((fft or (fourier adj1 transform) or (power adj1 spectr\$2)) with averag\$3) same (filter\$3 or equaliz\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 16:13
S13 0	50	((fft or (fourier adj1 transform) or (power adj1 spectr\$2)) with averag\$3) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 16:14
S13 1	8	((fft or (fourier adj1 transform) or (power adj1 spectr\$2)) with averag\$3) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 16:17
S13 2	4	((fft or (fourier adj1 transform) or (power adj1 spectr\$2)) with averag\$3) same (filter\$3 or equaliz\$3) same (ifft or (inverse adj2 transform)) and echo\$2 and (channel near3 (estimat\$4 or characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/12 16:19

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S13 3	55	((echo\$2 or reflection\$1) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or energ\$3)))) and ((echo or reflection\$1) with (auto\$1correlat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 09:18
S13 4	35	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo or reflection\$1) with (auto\$1correlat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 09:18
S13 5	35	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 09:21
S13 6	20	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 09:24
S13 7	6	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 09:25
S13 8	6	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and echo\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:21
S13 9	5	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (power adj1 spectr\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 14:47

## EAST Search History

S14 0	1	("5117418").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/13 14:54
S14 1	0	(fft or (fourier adj1 transform)) with (auto\$1correlat\$3 or (auto adj1 correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse near3 fourier adj1 transform)) same (channel near2 (estimat\$3 or characteristic\$1 or impulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 14:59
S14 2	3	(fft or (fourier adj1 transform)) same (auto\$1correlat\$3 or (auto adj1 correlat\$3)) same (filter\$3 or equaliz\$3) same (ifft or (inverse near3 fourier adj1 transform)) same (channel near2 (estimat\$3 or characteristic\$1 or impulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 14:59
S14 3	4	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (peak\$1 with correlat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:33
S14 4	3	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (delay\$1 with impulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:37
S14 5	3	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (delay\$1 with (channel near2 (impulse or estimat\$3 or characteristic\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:41

## EAST Search History

S14 6	6	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (echo\$2 with (channel near2 (impulse or estimat\$3 or characteristic\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:52
S14 7	0	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (peak\$1 with delay\$1) with (delay\$1 with (channel near2 (impulse or estimat\$3 or characteristic\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:53
S14 8	3	((echo\$2) near4 (major or minor or strong\$3 or (threshold near3 (amplitude\$1 or magnitude\$1 or energ\$3)))) and ((echo\$2) with (auto\$1correlat\$3)) and (fft or (fast adj1 fourier adj1 transform) or (power adj2 spectr\$2)) and (channel near3 (characteristic\$1 or impulse or estimat\$3)) and (peak\$1 with delay\$1) and (delay\$1 with (channel near2 (impulse or estimat\$3 or characteristic\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/13 15:53